

STUDENT ID NO								
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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2017/2018

DMA5018 - MULTIMEDIA APPLICATIONS

(For Diploma students only)

5 JUNE 2018 2:30 p.m. – 4:30 p.m. (2 Hours)

INSTRUCTIONS TO STUDENT

- 1. This question paper consists of 8 pages.
- 2. Answer ALL questions in Section A and Section B on the Answer Booklet.

SECTION A: 30 MULTIPLE CHOICE QUESTIONS (30 MARKS)

Instruction: Write your answers in the Answer Booklet.

	•		
1.	Text that has words, sections, or thoughts are linked t	together with clickable sp	ots
	is called .		
	A. hotspot	,	
	B. hypertext		
	C. hyperlink	*	
	D. hypermedia		
2.	Specifying which font to be substitution is called		
	A. alising	-	
	B. anti-alising		
	C. rasterization		
	D. font mapping	-	
	2. Iom mapping	•	
3.		· ×	
	Label X		
	Tuca	· ·	
	Label X shown in typography above is known as:	1	
	A. leading		
	B. baseline		
	C. point size		
	D. cap height		
·	D. cap neight		
1.	fonts are used for headlines and bold state	ments. It is considered het	401
т•	for computer displays.	ments. It is considered bet	. []
	A. Arial	•	•
	B. Serif		
	C. Calibri	. ·	
	D. Sans-serif		
	D. Sans-seni		
5.	The wider than tall orientation that is normal to monit	ors is called	
,.	The wider-than-tall orientation that is normal to monit	ors is carred	
	A. landscape	• ,	
	B. portrait		
	C. canvas	(2)	
	D. screen		
5.	Which of the following is FALSE about symbols?		
,	which of the following is PALSE about symbols?		

. A. Used to convey human emotions.

B. Used to convey meaningful messages.

C. Symbolic representations of objects and processes.

D. Concentrated text in the form of stand-alone graphic constructs.

Continued...

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- 7. Bitmaps are an image format suited for creation of the following EXCEPT:
 - A. Complex drawings.
 - B. Photo-realistic images.
 - C. Images that require fine detail.
 - D. Graphic artists designing for the print media.
- 8. Which of the following statement are TRUE about bitmap images?
 - I. Use less memory space,
 - II. Not easily scalable and resizable.
 - III. Require a plug-in for web-based display.
 - IV. Download faster compare to vector images.
 - V. Can be converted to vector images using autotracing.
 - A. II, V
 - B. III, IV
 - C. I, III, IV
 - D. All of the above
- 9. Which of the following is the BEST example of lossy formats for image file compression?
 - A. GIF
 - B. PSD
 - C. PNG
 - D. JPEG
- 10. Authoring tool features as stated below refers to _____.
 - Layering capability.
 - Image manipulating.
 - Scalable dimensions and text.
 - Edit and retouching bitmapped image.
 - A. painting tools
 - B. drawing tools
 - C. word processing tools
 - D. 3-Dimensional modeling tools

11.	Vecto	or-drawn images is suitable to be applied in which area?	
	I.	Computer-aided design	
	II.	3-D animation programs	
	III.	Graphic artists designing for the print media	
	IV.	Applications requiring drawing of graphic shapes	
	A. I,]	. II	
	B. III		
		II, IV	
		all of the above	
•			
12.	The 3-	3-D application feature as stated below refers to	
		A profile of the shape is rotated around a defined axis	•
			V (24)
	A. lat	athing	
	B. sha	haping	
	C. mo	nodeling	
	D. ex	xtrusion	
13.		action that moves objects in flat space but adds an illusion of	
		owing and forced perspective is animation in	space.
	A. 2D		
	B. 2 ½		
	C. 3D	D	
	D. 4D	D	
14.		th of the following is FALSE about animation?	
	A. De	efined as the act of making something come alive.	
	B. An	n object moving across or into or out of the screen.	
	C. It i	is concerned with the visual or aesthetic aspect of the project.	
	D. A1	technique in which a series of progressively different graphics i	s used on each
	fra	ame of movie film.	
15.	What	is the extension of an Adobe Flash project that has been	compiled for
	playba		-
	Afla	la	
	Bsv	vg	
	Cdc	ler	
	Dsv	wf	

16. Some animation programs allow the animator to create a trail between two points and then animate an object along that trail. This type of animation is called
A. morphing
B. kinematics
C. cel animation
D. path animation
17. When sound is digitized, the frequency with which a section of sound is taken and
stored is known as the
A. bit depth
B. resolution
C. sample size
D. sampling rate
 18. Digital audio is known as when the audio quality based on quality of your recording, and not the device the end user will play the audio. A. speaker B. quantization C. device dependent D. device independent
19. Which of these statements regarding the MIDI audio format is TRUE?
A. It is difficult to change instruments.
B. Spoken audio is difficult to include.
C. Sound tracks can be edited using waveform editors.
D. Files are generally larger than the same digital audio sound.
20. Which of the following sound editing operation BEST describes the statement below?
Edit and combine multiple tracks such as sound effects, voice-overs, music,
etc; and merge the tracks and export in final mix to a single audio file.
A. Multiple track
B. Format conversion
C. Splicing & Assembly
D. Digital signal processing

21. Which of the following multimedia elem hardware performance?	nents places the highest demand on
A. Audio	*
B. Video	
C. Graphic	20
D. Animation	4
22. Computer displays draw the lines of an entir	e frame in a single pass; this technique
is called	
A. packing	100 m
B. overscan	
C. streaming	
D. progressive-scan	
23. A video signal transmitted with all the signal	s mixed together and carried on a single
cable is called	
A. RGB video	
B. composite video	
C. component video	
D. multiformat video	
 24. The video technique that allows you to choos transparent, allowing the video image to leaverlying image, is known by all of the follows. A. interlacing B. blue screen C. green screen D. chroma key editing 	be visible behind those colors in the
25. There are three analog broadcast video standworld EXCEPT:	dards are commonly in use around the
A. Phase Alternate Line	•
B. High Definition Television	
C. Sequential Color and Memory	
D. National Television Standards Committee	ee ·
	421
26. The and the are th	ne protocols for communication on the
Internet.	
A. Hypertext Transfer Protocol; Internet Pro	otocol
B. Transmission Control Protocol; Internet	Protocol
C. Uniform Resource Locators; Hypertext 7	Transfer Protocol
D. Hypertext Transfer Protocol; Transmissi	on Control Protocol

27.	An	IP	address	can	be	exchanged	with	a(n)	•
	Δ	NΛ	IME-tym						

- B. usenet group
- C. decret group
- C. domain name
- D. point-to-point protocol
- 28. The amount of data expressed in terms of bits per second is referred to as
 - A. bps
 - B. speed
 - C. packets
 - D. bandwidth
- 29. Web pages are written in
 - A. MIME
 - B. HTML
 - C. TCP/IP
 - D. JAVA
- 30. Which of the following services is provided by Internet?
 - I. FTP
 - II. Gopher
 - III. Usenet
 - IV. Telnet
 - V. SMTP
 - VI. MUD
 - A. I, II, IV, V
 - B. I, II, III, IV
 - C. III, IV, V, VI
 - D. All of the above

SECTION B: 5 STRUCTURED QUESTIONS (70 MARKS)

Instruction: Write your answers in the Answer Booklet.

QUESTION 1 (15 MARKS)

- a) Explain **THREE** (3) types of character set and give an example for each of them.

 [9 marks]
- b) Explain the use of image editing programs in producing a multimedia project.

 [4 marks]
- c) List TWO (2) 3-D animation drawing and rendering tools. [2 marks]

QUESTION 2 (15 MARKS)

a) Explain cel animation technique.

[8 marks]

- b) Discuss the following terminology in animation:
 - i) Kinematics

[2 Marks]

ii) Inverse kinematics

[2 Marks]

 Discuss and identify the difference between computer animation and the traditional way creating an animation.
 [3 marks]

QUESTION 3 (10 MARKS)

a) Discuss digital audio.

[5 marks]

b) Calculate the audio file size in *Megabytes* of 2.5 minutes, 2 bytes, 44.1kHz mono music.

[5 marks]

QUESTION 4 (15 MARKS)

a) Explain codec.

[3 marks]

b) Calculate the video file size in gigabytes.

[12 marks]

Duetion	Brame Rete	Iname Size.	Color Depth
78 minutes	30 fps	800 x 400	16

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QUESTION 5 (15 MARKS)

a) Explain bottleneck.

[1 mark]

b) Discuss FOUR (4) ways to avoid bandwidth bottleneck.

[8 marks]

c) Explain how data are sent over the internet.

[6 marks]